IN THE CLAIMS:

Please amend claims 1, 6, 22, and 25 as follows.

1. (Currently Amended) A method, comprising:

selectively updating a compression history ~~selectively~~at a compressor~~, wherein selection is performed~~ based on a first algorithm ~~for determining~~configured to determine whether a packet ~~shall~~ is to be compressed, and based on a second algorithm ~~for determining~~configured to determine whether a compressed packet ~~shall~~ is to be used for ~~an update~~the updating of the compression history.

2. (Previously Presented) The method according to claim 1, further comprising:

ensuring a history consistency between a compressor and a decompressor by using transmission control protocol, wherein the compressor monitors an acknowledgment signaling of a transmission control protocol receiver.

3. (Original) The method according to claim 1, further comprising:

ensuring a history consistency between a compressor and a decompressor by using a feedback between the compressor and the decompressor.

4. (Previously Presented) The method according to claim 2, further comprising:

enabling the compressor to safely infer a subset of a first context at the decompressor by monitoring the transmission control protocol acknowledgment signaling, wherein the subset is used as a second context for compression.

5. (Previously Presented) The method according to claim 1, further comprising:

ensuring a history consistency between a compressor and a decompressor by combining use of transmission control protocol, wherein the compressor monitors an acknowledgment signaling of a transmission control protocol receiver, with use of a feedback between the compressor and the decompressor.

6. (Currently Amended) A method, comprising:

using a first algorithm in conjunction with a compressing device to decide if a current packet should be compressed;

using a second algorithm in conjunction with the compressing device to decide which packets out of packets sent compressed are to be used to update a buffer of the compressing device; and

signaling from the compressing device to a decompressing device such that the decompressing device knows which of the packets out of the packets sent are to be included in a compression history.

7. (Previously Presented) The method according to claim 6, further comprising:

ensuring a history consistency between the compressing device and a decompressing device by using transmission control protocol, wherein the compressing device monitors an acknowledgment signaling of a transmission control protocol receiver.

8. (Previously Presented) The method according to claim 7, further comprising:

enabling the compressing device to safely infer a subset of a first context at the decompressing device by monitoring the transmission control protocol acknowledgment signaling, wherein the subset is used as a second context for compression.

9. (Original) The method according to claim 6, further comprising:

ensuring a history consistency between the compressing device and the decompressing device by using a feedback between the compressing device and the decompressing device.

10. (Previously Presented) The method according to claim 6, further comprising:

ensuring a history consistency between the compressing device and a decompressing device by combining use of transmission control protocol, wherein the compressing device monitors an acknowledgment signaling of a transmission control protocol receiver, with use of a feedback between the compressing device and the decompressing device.

11. (Previously Presented) An apparatus, comprising:

a processor configured to update a compression history selectively, the processor having implemented and being configured to process a first algorithm related to whether a packet shall be compressed, and a second algorithm related to whether a compressed packet shall be used for an update of the compression history.

12. (Previously Presented) The apparatus according to claim 11, further comprising:

a monitor configured to monitor an acknowledgment signaling of a transmission control protocol receiver, wherein the monitor is operably connected to the processor.

13. (Previously Presented) The apparatus according to claim 12, wherein said monitor is configured to be enabled to safely infer a subset of a first context at a decompressor by monitoring transmission control protocol acknowledgment signaling, wherein the subset is used as a second context for compression.

14. (Previously Presented) The apparatus according to claim 11, further comprising:

an establisher configured to establish a feedback between the compression device and a decompression device, wherein the establisher is operably connected to the processor.

15. (Previously Presented) An apparatus, comprising:

a transmitter configured to signal to a decompression device which of a first set of packets are to be included in a compression history, the transmitter having implemented and processing a first algorithm used to decide if the current packet should be compressed; and

a processor configured to have implemented and to process a second algorithm, wherein the second algorithm is used to determine which of a second set of packets out of a third set of packets sent compressed are to be used to update a buffer, wherein the processor is operably connected to the transmitter.

16. (Previously Presented) The apparatus according to claim 15, further comprising:

a monitor configured to monitor an acknowledgment signaling of a transmission control protocol receiver, wherein the monitor is operably connected to the transmitter.

17. (Previously Presented) The apparatus according to claim 16, wherein the monitor is configured to be enabled to safely infer a subset of a first context at a decompressor by monitoring a transmission control protocol acknowledgment signaling, wherein the subset is used as a second context for compression.

18. (Previously Presented) The apparatus according to claim 15, further comprising:

an establishing unit configured to establish a feedback between the compression device and a decompression device, wherein the establishing unit is operably connected to the transmitter.

19. (Previously Presented) An apparatus, comprising:

a receiver configured to receive signals from a compression device indicating which packets are to be included in a compression history; and

a processor configured to process a packet sequence number for updating a buffer in synchronization with the compression device, wherein the processor is operably connected to the receiver.

20. (Previously Presented) The apparatus according to claim 19, further comprising:

a forwarding unit configured to forward an acknowledgment signaling of a transmission control protocol receiver to the compression device, wherein the forwarding unit is operably connected to the receiver.

21. (Previously Presented) The apparatus according to claim 19, further comprising:

an establishing unit configured to establish a feedback between the compression device and the decompression device, wherein the establishing means is operably connected to the receiver.

22. (Currently Amended) An apparatus, comprising:

updating means for updating a compression history selectively, the updating means for implementing and processing a first algorithm related to whether a packet shall be compressed, and a second algorithm related to whether a compressed packet shall be used for an update of the compression history; and

monitoring means operably connected to the updating means for monitoring an acknowledgment signaling.

23. (Previously Presented) An apparatus, comprising:

signaling means for signaling a decompression device which of a first set of packets are to be included in the compression history, the signaling means having

implemented and processing a first algorithm used to decide if the current packet should be compressed; and

processing means for having implementing and processing a second algorithm, wherein the second algorithm is used to determine which of a second set of packets out of a third set of packets sent compressed are to be used to update the buffer, wherein processor is operably connected to the means for signaling.

24. (Previously Presented) An apparatus, comprising:

receiving means for receiving signals from a compression device indicating which packets are to be included in a compression history; and

processing means for processing a packet sequence number for updating the buffer in synchronization with the compression device, wherein the processor is operably connected to the receiving means.

25. (Currently Amended) A computer program, embodied on a computer-readable medium, the computer program configured to control a processor to perform a method comprising:

selectively updating a compression history ~~selectively~~at a compressor~~, wherein selection is performed~~ based on a first algorithm ~~for determining~~configured to determine whether a packet ~~shall~~ is to be compressed, and based on a second algorithm ~~for~~

~~determining~~configured to determine whether a compressed packet ~~shall~~ is to be used for ~~an update~~the updating of the compression history.

26. (Previously Presented) A computer program, embodied on a computer-readable medium, the computer program configured to control a processor to perform a method comprising:

using a first algorithm in conjunction with a compressing device to decide if a current packet should be compressed;

using a second algorithm in conjunction with the compressing device to decide which packets out of packets sent compressed are to be used to update a buffer of the compressing device;

signaling from the compressing device to a decompressing device such that the decompressing device knows which of the packets out of the packets sent are to be included in a compression history.